PROPOSED KEYSTONE CONFERENCE: MOLECULAR MECHANISMS COMMON TO TYPES I AND II DIABETES

Keynote speaker - Henry Bourne G Proteins and Intracellular Signaling

<u>Plenary - Genetics of Type II Diabetes Mellitus</u> G. Bell

I. Session: Biology of the Beta Cell I - Gene Regulation D. Steiner

- 1. Differentiation S. Efrat
- 2. Gene regulation M. German
- 3. Development S. Bonner Weir

II. Session: Biology of the Beta Cell II - Biosynthesis and Processing G. Grodsky

- 1. Biosynthesis C. Rhodes
- 2. Prorelaxin and proinsulin processing C. Gorman
- 3. Amylin
 P. Westermark

III. Session: Biology of the β-Cell - Pathways F. Matchinski

- Ion channels, sulfonylureas and insulin release C. Boyd
- 2. GLUT 2 Function in the β-Cell C. Newgard
- 4. GLP-1 J. Habner

IV. Session: Gene Expression in Type II Diabetes D. Granner

- Insulin regulation of gene expression
 Magnusen
- 2. Insulin receptor mutations S. Taylor
- 3. Pima Indian model of NIDDM C. Bogardus

V. Session: Glucose Transporter Function in Diabetes P. Pilch

- 1. Domains of GLUT4 that confer specialized function
 - M. Meckler
 - Y. Oka
 - D. James
- 2. Role of muscle T tubule in glucose transport L. Dohm
- 3. Transgenic models of glucose transport regulation J. Pessin
- 4. Influence of oral hypoglycemic agents C. Hoffman

VI. Session: Hormone and Lymphokine Action I R. Roth

- Antigen receptor and tyrosine kinase mediating lymphocyte activation
 R. Klausner
- 2. Role of IRS-1 in insulin receptor signaling M. White
- 3. CD45 phosphatase in signal transduction A. Weiss

VII. Session: Early Events in Hormone and Lymphokine Action II R. Kahn

- 1. Receptor co-stimulation and the anergic response R. Schwartz
- 2. Insulin receptor signaling circuits
 M. Czech
- 3. Protein kinase cascades in insulin actions
 J. Avruch

Mechanisms of IL2 transcriptional regulation G. Crabtree

VIII. Session: GTP-binding Proteins in Signal Transmission J. Exton

- 1. p21 RAS regulation F. McCormick
- 2. ras in T lymphocyte activation P. Downward
- 3. G-proteins in the beta cell
 A. Speigel

Workshop I: Insulin Resistance

J. Flier

G. Reaven

Workshop II: Insulin Receptor α Subunit Function

C. Yip

P. De Meyts